INDEX.

Agassiz, Professor, on fossil fishes of the London clay, 121.
——— on the brain of fishes, 210.
——— new arrangement of the order Crinoidea, 208.
——— on the geological importance of the rays of fishes, 208.
——— on the erratic phenomena of Scandinavia, 237.
——— his various works enumerated, 398.
Albite of Kimito, the so-called, proved to be an oligoclase, 381.
Alios (Pan) of the North-West of France, 387.
Allanite, cerine, and orthite, probably identical, 383.
Anderson, Adam, Professor, St Andrews, on some new and curious curves, generated by the images reflected from plane mirrors in a state of rapid rotation around a fixed axis, 59.
Anatase, Brookite, and rutile, 383.
Aracacha, its proposed introduction into Europe, 398.
Auckland, its meteorology, 382.
Aurès, the white race of, in Algeria, 393.

Berghaus and Johnston, their Physical Atlas, No. 3, noticed, 401.
Bituminous coals discovered in Chatham Island, 386.
Bischof, Gustav, Professor, on the origin of quartz and metalliferous veins, concluded, 220.
Brodie, P. B., his fossil insects noticed, 400.
Brongniart, Adolphe, on the great divisions of the vegetable kingdom occurring in the different geological formations, 285.

Callebar, Old, on the natives of, by W. F. Daniel, Esq., 313.
Cetacea, herbivorous, observations on, 393.
Chrome in Serpentine, 382.
Coal, black bituminous, discovered in Chatham Island, one of the Galapagos, 386.
Coffee-tree, leaves of, as a substitute for tea, 208.
Connell, Arthur, Professor, analysis of Icelandic volcanic dust, 217.
Corals, calcareous, chemical composition of, by B. Silliman junior, 243.
Cranium, structure of, in the Rhytina Stelleri, &c., 393.
Cuchullin Hills in Skye, their geology and topography, and ancient glaciers, by Professor Forbes, 76.

Daniel, W. F., on the natives of Old Callebar, West Coast of Africa, 313.
Davy, John, Dr, observations made during a voyage from England to Barbadoes, 45.
——— on the chemical nature of the excrements of insects, 231, 335.
Diaspore, its occurrence at Schemnitz, 383.
Dick, Thomas, LL.D., his astronomy noticed, 490.
Dunbar, Dr, meteorological observations at Manse of Applegarth, for 1845, 368.

XUM

Durocher, M. J., on the erratic phenomena of Scandinavia, 234.
Dykes of marble and quartz, their connection with plutonic rocks, in New South Wales, 201.
Dysluite identical with automolite, 383.
Electric sound, on, by Jacobi, 205.
Electro-culture, experiments on, by Professor and Dr Fyfe, 143.
Elie de Beaumont, his Geologie Pratique noticed, 399.
Epidosite, a new species of mountain rock, 382.
Erratic phenomena, observations on, 234.
Espy, J. P., his meteorological report, 374.
Ethnography of Russian America, 35.

Falconer and Cautley, their Fauna Antiqua Sivalensis noticed, 399.
Forbes, James, Professor, his Tenth Letter on glaciers, 154.
——— on the geology and topography and ancient glaciers of the Cuchullin Hills in the Island of Skye, 76.
Forsyth, Charles, Esq., advocate, his geology of West Lothian, noticed, 399.
Fossils, on, their distribution in different formations, 258.
Fox, Were, on certain pseudo-morphous crystals of quartz, 115.
Fyfe, Andrew, Professor, on electro-culture, 143.

Geological distribution of fossil plants, 285.
Glaciers and icebergs, ancient, in Scotland, account of, by Charles Maclaren, Esq., F.R.S.E., 125.
——— Professor Forbes, his Tenth Letter on, 154.
Glacier markings in South Wales, 207.
Glacial action, traces of at North Berwick, 387.
Goeppert, M., summary of the families and species of fossil plants occurring in different formations, 287.
Gold, produce of Siberia, by Sir R. J. Murchison, F.R.S.L., 340.
Great heights, sensations at, 373.
Guano contains microscopic siliceous sea animals, 387.

Hay, D. R., Esq., a description of a machine for drawing the perfect egg-oval, &c., 331.
Horses, British, account of, by Professor David Low, 179.

Ice, young, its formation, 378.
Infusoria in volcanic rocks, by Ehrenberg, 393.
Insects, excrements of, examined chemically, by Dr John Davy, 231.
Iridescent silver, 396.

Jade, white, analysis of, by M. A. Damour, 380.

Kane, Sir R., on turbines, 401.
Kersten on the conversion of sulphate of lead into lead-glance, by means of organic substances, 382.

Kunker, a tuffaceous deposit in India, account of, 205.
Kupferindig, crystallization of, 381.

Lake, Salt, of Van, in Armenistan, 377.
Land, subsidence of, at Puzzuoli, 385.
Latham, R.G., M.D., on the ethnography of North America, 35; upon the philologic ethnography of the countries around the Bight of Biafra, 327.
Lithographic stones, notice of, 206.
Low, Professor, on British horses, 179.
——— his domesticated animals noticed, 400.

Macaire, Professor, his life and writings of Theodore de Saussure, 1.
Maclaren, Charles, F.R.S.E., &c., on the existence of glaciers and icebergs in Scotland at an ancient epoch, 125.
Mammoths, their habitation and destruction of, considered. By Sir R. I. Murchison, 344.
Manganocalcite, its analysis, 380.
Marble and quartz dykes in New Holland, 201.
Metals, permeability of, 390.
Meteorites, fall of, in the Sandwich Islands, 204.
——— in the Imperial Cabinet at Vienna, 373.
Meteorology, report on, by James P. Espy, 374.
Miller, J. F., Esq., meteorology of Whitehaven, 1845, 365.
Mines, air of, 386.
Mouth, human, observations on, by Alexander Nasmyth, Esq., 161.
Mud, torrent of, in the Plain of the Lagunilla, New Granada, 199.
Murchison, Sir R. I., his work on Russia, noticed, 389.

Nasmyth, Alexander, on the human mouth, 161.
Newbold, Captain, on the temperature of the springs, wells, and rivers of India and Egypt, and table-lands within the tropics, 99.
Newfoundland, its gradual rise above the sea, 206.
Norway, geology of, as connected with the absence of a feudal nobility, &c., 388.

Oust-art, and shores of Lake Aral, 386.

Panama, isthmus of, proposed canal across, 209.
Patents granted for Scotland from 23d September to 18th December 1845; also from 22d of December 1845 to 22d March 1846, 210, and 401.
Philosophical Society of Glasgow, its proceedings, noticed, 400.
Pictet, F. J., Professor, on the distribution of fossils in different formations, 255; on the classification of fossils, and their determination, 289.

XUM

Predazzite, analysis of, 381.
Protection from lightning, of houses with metallic roofs, 375.
Puzzuoli, the subsidence of the land at, 385.

Rain, acid, observation on, 374.
Rolled blocks of rock resulting from glacier action, how distinguished from rolled blocks produced by the action of water, 208.
Russian America, its ethnography, by Dr Latham, 35.

Sahara, desert of, 390.
Sardinia, New map of 392.
Saussure, Theodore, on his life and writings, by Professor Macaire, 1.
Schimper, M. P., on the erratic phenomena of Scandinavia, 240; on fossil plants, 393.
Sensation at great heights, 373.
Siberia, western, quadrupeds and birds peculiar to, 395.
Silliman, Benjamin, jun., on chemical composition of calcareous corals, 243.
Silver, iridescent, observations on, 396.
Snails, land, their boring power, 396.
Springs, wells, and rivers of India and Egypt, and of the table-lands between the tropics, their temperature, according to Captain Newbold, 99.
Statistical account of Scotland noticed, 400.
Storms, on the cause of, by G. A. Rowell, 281.
St Pierre as a naturalist, 209.
Sulphate of lead, converted into lead-glance, by means of organic substances, 382.
Temperature, high, in a pit sunk at Neuffen, in Würtemberg, 384.

Vanadium detected in an ore of iron, by Kersten, 382.
Vestiges of Creation, noticed, 399.
Volcanic dust, shower of, in Orkney, 217.

Waves, the force of, in moving masses of rock, 378.
Well, burning, account of, 206.
Whale and shark fishing in Faroe, 210.
Winds, dry, their destroying effects on cliffs, by W. C. Trevelyan, Esq., 207.

Yttro-Cerite, found in Orange County, New York, 383.

Zircon, new locality of, in the Tyrol, 380.
Zoological principles of classification, and of the determination of fossils, 289.

END OF VOLUME FORTY.

XUM